# ABSTRACT OF SANITARY REPORTS.

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No. 34.

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#### UNITED STATES.

#### SPECIAL REPORTS.

Gulf Quarantine Station—Infected vessels now in quarantine.

Passed Assistant Surgeon H. R. Carter reports three vessels infected with yellow fever, now held in quarantine. The British ship Sardinian, from Rio de Janeiro, bound for Ship Island, arrived August 10, 1890, with a crew of twenty-three men. One man died in Rio of yellow fever. Several of the crew were ashore some seven days. Two men shipped in Rio, but had not been to the city proper. All the effects of the Rio men were taken ashore at the quarantine station and boiled.

Reports of the two remaining vessels will be found in the following letters:

August 12, 1890.

SIR: I have the honor to report the arrival, about 8 p. m., this day, of the Spanish bark *Castilla*, from Cienfuegos via Pascagoula, with the mate sick with yellow fever. Said vessel was at the Pascagoula quarantine discharging ballast from August 6 until to-day. The mate developed the disease on the evening of August 9, but it was not discovered until to-day. It is undoubtedly due to fomites on the vessel, probably ballast, as she had no sickness in Cienfuegos, and was twelve days out to Pascagoula. Owing to the lateness of arrival and the condition of the patient he was not brought to hospital to-night. Another illustration of the danger in healthy vessels.

Very respectfully,

H. R. CARTER, Passed Assistant Surgeon.

AUGUST 14, 1890.

I have the honor to report the arrival this day of the British bark *Brandon* fifty days from Rio Janeiro for Ship Island. Her captain sickened as she left Rio, and died five days out at sea, undoubtedly of yellow fever. I would lay no stress on this circumstance as affecting the vessel, but she lay in the Gamboa, and being very tight, has not pumped since she left Rio, and has a very offensive bilge, with decomposed grain and other dirt in the breast-hooks aft, where there is no ventilation. All are well on board her, but there is probability that she is infected.

Very respectfully,

H. R. CARTER,

Passed Assistant Surgeon, Marine-Hospital Service.

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Reports of States, and yearly and monthly reports of cities.

ALABAMA—Mobile.—Month of July, 1890. Population, 40,000. Total deaths, 94, including phthisis pulmonalis, 15; enteric fever, 6; and diphtheria, 1.

CALIFORNIA.—Month of July, 1890. Reports to the State board of health from 104 cities and towns, having an aggregate population of 850,440, show a total of 1,132 deaths, including phthisis pulmonalis, 150; enteric fever, 32; diphtheria, 17; scarlet fever, 2; measles, 3; croup, 7; and whooping-cough, 3.

Oakland.—Month of July, 1890. Population, 60,000. Total deaths, 58, including phthisis pulmonalis 6 and enteric fever 2.

San Francisco.—Month of July, 1890. Population, 330,000. Total deaths, 600, including phthisis pulmonalis, 72; enteric fever, 17; diphtheria, 10; croup, 4; measles, 1; scarlet fever, 1; and whooping-cough, 1.

CONNECTICUT.—Month of July, 1890. Reports to the State board of health from 168 cities and towns, having an aggregate population of 735,430, show a total of 1,300 deaths, including phthisis pulmonalis, 109; enteric fever, 18; diphtheria and croup, 34; scarlet fever, 3; measles, 4; and whooping-cough, 18.

FLORIDA—Tampa and surrounding country.—Week ended August 16, 1890. Population, 10,000. Total deaths, 4, including enteric fever 1. Illinois—Chicago.—Month of July, 1890. Population, 1,100,000. Total deaths, 2,146, including phthisis pulmonalis, 150; diphtheria, 40; enteric fever, 86; scarlet fever, 7; measles, 6; croup, 12; and whooping-cough, 26.

MICHIGAN.—Week ended August 9, 1890. Reports to the State board of health, Lansing, from 70 observers, indicate that puerperal fever, erysipelas, inflammation of brain, cholera morbus, scarlet fever, and pneumonia increased, and that measles, typhoid fever, whooping-cough, typho-malarial fever, inflammation of kidney, and pleuritis decreased in area of prevalence.

Diphtheria was reported at 27 places, scarlet fever at 21 places, enteric fever at 22 places, and measles at 13 places.

Detroit — Month of July, 1890. Population, 220,000. Total deaths, 447, including phthisis pulmonalis, 22; diphtheria, 29; enteric fever, 3; and scarlet fever, 4.

MINNESOTA.—Month of June, 1890. Reports to the State board of health show a total of 777 deaths in a population of 1,047,860, including measles, 8; scarlet fever, 9; diphtheria, 28; croup, 8; and enteric fever, 13.

Measles, scarlet fever, and diphtheria show a decrease, and enteric fever and croup show an increase in mortality and distribution, compared with the preceding month.

MISSOURI—Kansas City.—Month of June, 1890. Population, 150,000. Total deaths, 253, including phthisis pulmonalis, 18; scarlet fever, 3; enteric fever, 6; croup, 1; and whooping-cough, 2.

TENNESSEE—Chattanooga.—Month of July, 1890. Population, 40,-000. Total deaths, 45, including phthisis pulmonalis, 5; enteric fever, 3; eroup, 2; and whooping-cough, 1.

UTAH—Salt Lake City.—Month of June, 1890. Total deaths, 57, including phthisis pulmonalis, 1; diphtheria, 2; scarlet fever, 2; enteric fever, 2; and measles, 2.

#### Publications received.

Second annual report of the department of public safety, city of Pittsburgh, Pa., 1890.

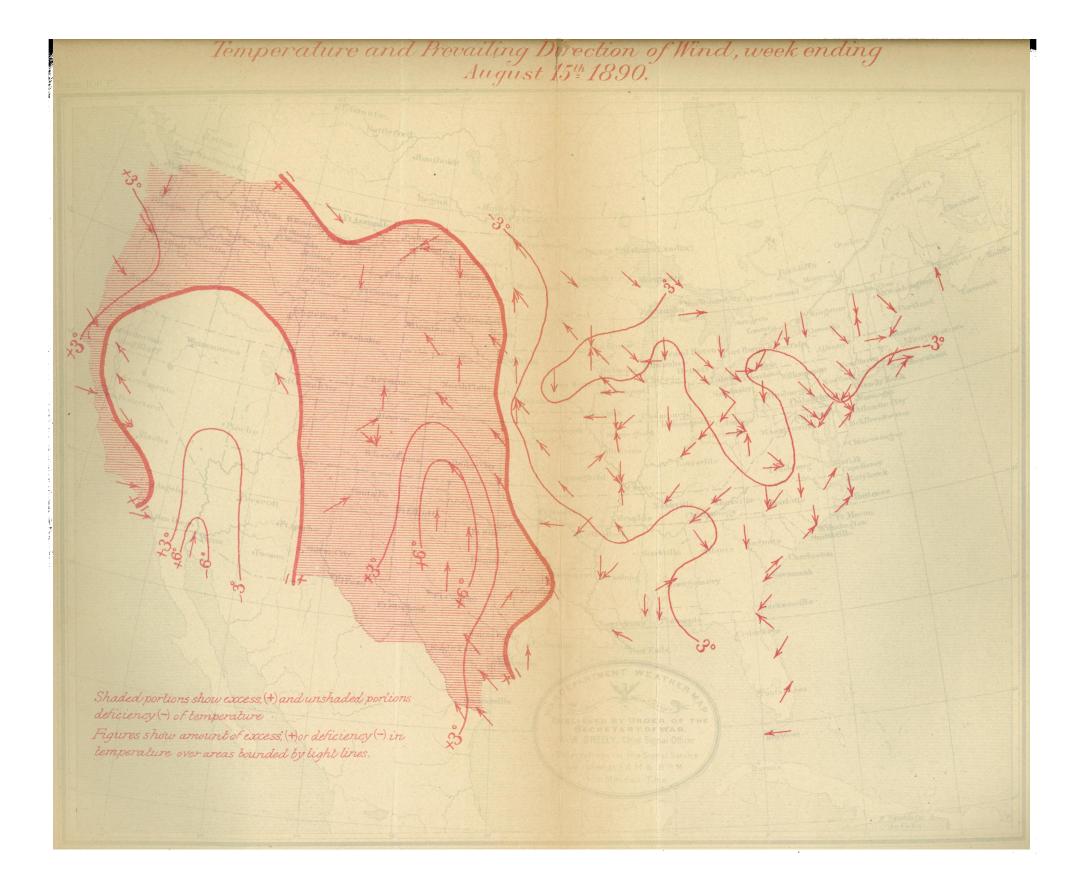
MORTALITY TABLE, CITIES OF THE UNITED STATES.

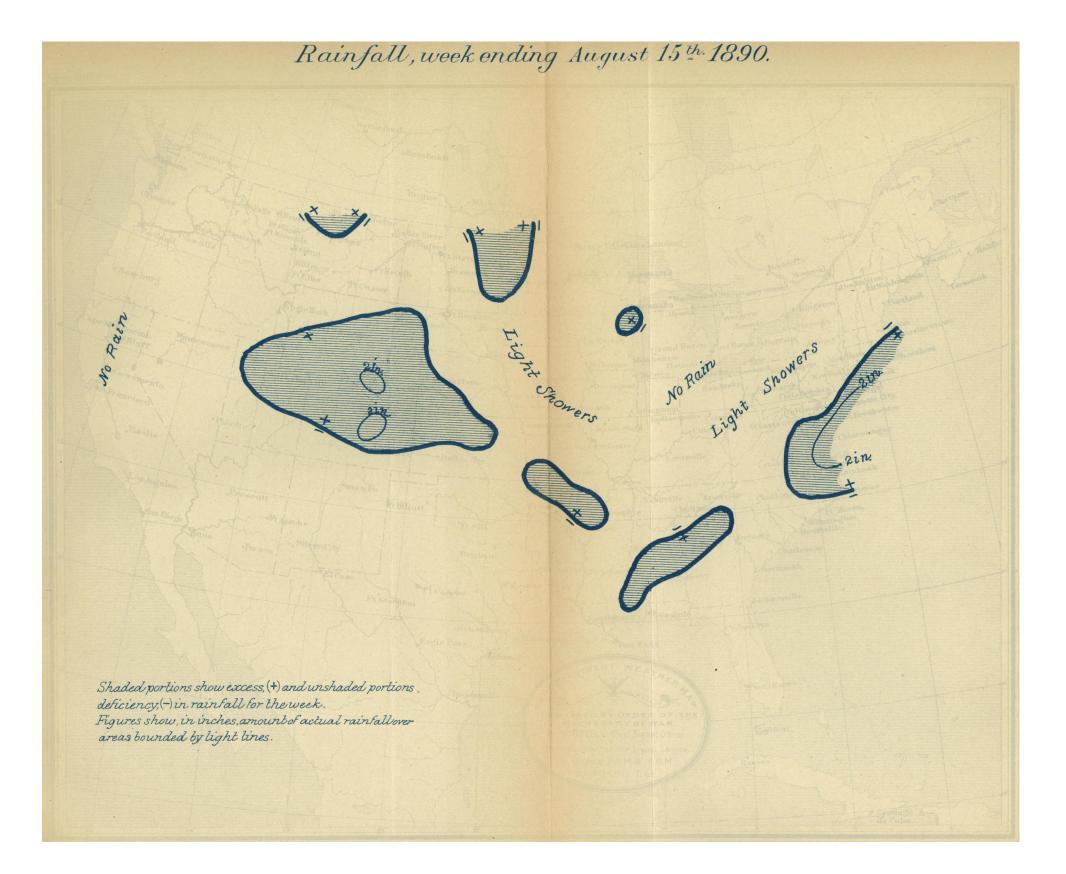
Cities.  New York, N. Y Philadelphia, Pa Chicago, Ill Baltimore, Mass	Aug. 16 Aug. 16 Aug. 16 Aug. 16	Batimated Dobnia- tion.	Total deaths from	Cholera.	Yellow fever.	Small-pox.	Varioloid.	Varicella.	Typhus fever.	Enteric fever.	Scarlet fever.	Diphtheria.	Measles.	Whooping-
Philadelphia, Pa Chicago, Ill Baltimore, Md	Aug. 9 Aug. 16 Aug. 16	1,064,277 1,100,000												ľ
Philadelphia, Pa Chicago, Ill Baltimore, Md	Aug. 9 Aug. 16 Aug. 16	1,064,277 1,100,000	430				1		1	10	5	12	9	15
Chicago, Ill Baltimore, Md	Aug. 16 Aug. 16	1, 100, 000								23	3	5	l	10
Baltimore, Md	Aug. 16		512					•••••		25	4	8	l" i"	10
		500, 343	175					•••••		4		2	li	1
		437, 245	242							3	1	3	1 -	١.
Cincinnati. Ohio	Aug. 15	325, 000	96							4		3		
Cleveland, Ohio	July 26	260,000	102					•••••		2		2	1 i	
Cleveland, Ohio	Aug. 2	260,000	132					•		8		-	1	
New Orleans, La	Aug. 2	254,000	116			•••		•••••		2		•••••		
New Orleans, La	Aug. 9	254,000	120			•••••			• • • • • • • • • • • • • • • • • • • •	ĺ	1	•••••	ļ	
Washington, D. C	Aug. 16	250,000	72					•••••		4	1			1
Pittsburgh, Pa	Aug. 16	240,000	91					•••••						
Detroit, Mich	Aug. 9	230,000	101					•••••	•••••	8		6	1	
Louisville, Ky	Aug. 16		53					•••••				3		
Milwaukee, Wis	Aug. 16	227,000	85			•••••		•••••		4	•••••		···· <u>·</u> ··	
		220,000						•••••		1		2	• 1	
Kansas City, Mo	Aug. 9	132,000	50					•••••				1		
Kansas City, Mo	Aug. 16	132,000	36					•••••		2				
Providence, R. I	Aug. 16	130,000	63					•••••		1		2		
Indianapolis, Ind	Aug. 15	129, 346	32							2				
Toledo, Ohio	Aug. 15	81,650	24							1				ļ
Nashville, Tenn	Aug. 16	75, 575	38							2		1		
Fall River, Mass	Aug. 16	69,000	40							1				
Binghamton, N. Y	Aug. 16	35,000	7										l	1
Altoona, Pa	July 19	34,397	13										l	l
Altoona, Pa	July 26	34, 397	14										ļ	l
Auburn, N. Y	Aug. 16	26,000	9										l	l
Newton, Mass	Aug. 16	22,011	10								ļ		l	l
Rock Island, Ill	Aug. 10	16,000	1								l			
Pensacola, Fla	Aug. 9	15,000	7											

## ${\it Table~of~temperature~and~rain-fall,~week~ended~August~15,~1890.}$

## [Received from War Department, Signal Office.]

Locality.	Mean ter	nperature Fahrenhe	in degrees, it.	Rain-fall in inches and hun- dredths.					
	Normal.	Excess	Deficiency.	Normal.	Excess.	Deficiency			
New England States:				•					
Eastport, Me	61		6	.74	1	.0			
Boston, Mass	71		17	1.02		i .7			
Middle Atlantic States:			••	1.02					
Albany, N. Y	72		8	.78	1	.5			
New York, N. Y	73			1.09					
Washington, D. C				1.05	. 46				
Lynchburg, Va				. 90					
South Atlantic States:				. 50	l				
Charlotte, N. C	76		24	1.08		.8			
	81			1.77	.05				
Charleston, S. C					.05	.5			
Savannah, Ga				1.82 1.13					
Key West, Fla	04		. 10	1.15		1.0			
Gulf States:	76		18	. 92	. 13				
Atlanta, Ga						.8			
Mobile, Ala	81			1.53					
Vicksburg, Miss	81		-	.72					
New Orleans, La	82			1.20					
Fort Smith, Ark				. 49					
Galveston, Tex	84		1	1.11					
Brownsville, Tex	82	7		1.01		1.0			
Ohio Valley and Tennessee:									
Memphis, Tenn				.74	. 27				
Chattanooga, Tenn	76			. 94					
Louisville, Ky				.80					
Cincinnati, Ohio				.90					
Pittsburgh, Pa	72		19	.74		.5			
Lake Region:									
Rochester, N.Y	70			.74					
Cleveland, Ohio	70			.74					
Detroit, Mich	70		11	. 66					
Milwaukee, Wis	68			.70					
Chicago, Ill	71	l	27	.74					
Duluth, Minn	65		24	.77	1				
Upper Mississippi Valley:	ĺ		1		ļ	1			
St. Paul, Minn	69		24	. 83	l				
Keokuk, Iowa	75		. 33	.74		غ <i>:</i> ا.			
Springfield, Ill			24	. 69					
St. Louis, Mo	77		29	. 57					
Missouri Valley:					1	-			
Omaha, Nebr	74		24	.80	1	.5			
Extreme Northwest:									
Bismarck, Dak	68	15		.59		.2			
Rocky Mountain Slope:	1	1							
Helena, Mont	66	16		.21	1	. (			
Denver, Colo	70	10		.35	.66				
Santa Fé, N. Mex	66	6		.68					
	00	0		.00	1	•			
Pacific Coast:	66	21		. 15	l .				
Portland, Oreg	58	18			.00				
San Francisco, Cal	92	19	42	.00	.43				
Yuma, Ariz	92		42	. 11	.43				





#### FOREIGN.

(Reports received through the Department of State and other channels.)

GREAT BRITAIN—England and Wales.—The deaths registered in 28 great towns of England and Wales during the week ended August 2 corresponded to an annual rate of 19.6 a thousand of the aggregate population, which is estimated at 9,715,559. The lowest rate was recorded in Cardiff, viz, 9.8, and the highest in Manchester, viz, 26.1 a thousand. Diphtheria caused 5 deaths in Salford and 6 in Manchester.

London.—One thousand six hundred and eighty-three deaths were registered during the week, including measles, 82; scarlet fever, 19; diphtheria, 36; whooping-cough, 45; enteric fever, 11; and diarrhœa and dysentery, 177. The deaths from all causes corresponded to an annual rate of 19.8 a thousand. Diseases of the respiratory organs caused 215 deaths. In greater London 2,074 deaths were registered, corresponding to an annual rate of 18.8 a thousand of the population. In the "outer ring" the deaths included measles, 31; whooping-cough, 14.

Ireland.—The average annual death rate, represented by the deaths registered during the week ended August 2, in the 16 principal town districts of Ireland, was 18.9 a thousand of the population. The lowest rate was recorded in Armagh, viz, 10.3, and the highest in Belfast, viz, 26.3 a thousand. In Dublin and suburbs 118 deaths were registered, including measles, 5; enteric fever 2; and whooping-cough, 2.

Canada—*Three Rivers.*—Month of July, 1890. Population, 8,414. Total deaths, 35, including 3 from phthisis pulmonalis.

France—Marseilles.—Month of July, 1890. Population, 375,378. Total deaths, 1,068, including small-pox, 37; enteric fever, 25; diphtheria and croup, 61; measles, 68; scarlet fever, 4; and whooping-cough, 7.

Rheims.—Month of June, 1890. Population, 97,903. Total deaths, 179, including phthisis pulmonalis, 25; diphtheria and croup, 3; measles, 10; and enteric fever, 1.

Spain—Cholera.—The United States chargé d'affaires at Madrid reports 899 cases and 493 deaths in Spain from cholera, to and including the 31st day of July, 1890.

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## Province and city of Valencia.

The United States consul at Barcelona sends the following continuation of his statistical report of cholera in Valencia, dated August 2, 1890:

In the city of Valencia during the week ended July 31, 1890, there were 31 cases of cholera and 13 deaths.

July 23—		
•	Cases.	Deaths.
Algernesi	1	0
Cuatretonda	2	0
Castellon de Rugat	3	2
Guadasequia	0	2
Yativa		0
Millares	4	4
Rotova	0	1
July 24—		
Beniopa	0	2
Castellon de Rugat	ĭ	ĩ
Yativa	ī	ĩ
Millares.	4	3
Terrateig	Ö	2
Rotglá y Corbera	5	4
Pueblo N' del Mar	1	0
July 25—		
	_	
Cuatretonda	1	0
Castellon de Rugat	3	1
Millares	4	1
Pueblo N' del Mar	0	1
July 26—		
Castellon de Rugat	. 0	2
Gandia	ŏ	ĩ
July 27—		
-	4	0
Algernesi	1	2
Castellon de Rugat	1	2
TerrateigLlanera	1 12	0 4
Hanera	12	4
July 28—		
Alfarrasi	2	0
Algernesi	1	3
Benifairo'	5	3
Cuatretonda	1	0
Castellon de Rugat	2	0
Gandia	0	1
Llanera	1	1
Millares	2	0
Canals	11	5
Torrella	2	4
Onténiente	1	1
Cerdá	9	1
Utiel	. 1	0

July 29—		
0 <b>4.</b>	Cases.	Deaths.
Alberique	. 1	0
Algernesi	. 4	0
Castellon de Rugat	. 1	0
Cerdá	. 0	<b>2</b>
Llanera	. 1	O
Montichelvo	. 1	0
Millares	. 3	0
Terrateig	. 1	0
Alcudia Crespins	. 4	2
Granja		0
July 30—		
Algernesi	. 1	0
Castellon de Rugat	. 2	3
Canals		14
Granja	. 2	0
Millares	. 1	2
Terrateig	. 1	0
July 31—		
Algernesi		3
Castellon de Rugat		1
Canals		5
Cerdá	. 2	1
Granja	. 4	1
Llanera	. 4	6
Manuel	1	0
Onténiente	_	1
Llosá de Ranes	. 1	1
Luchente	. 1	0
Montesa	. 2	2

ITALY—Turin.—Ten days ended June 30, 1890. Population, 314,827. Total deaths, 179, including enteric fever, 37; typhus fever, 11; diphtheria, 1; and small-pox, 1.

INDIA—Ceylon.—Quarter ended September 30, 1889. Population of the island, on the last day of the quarter, was 2,883,799. The deaths registered in this quarter amounted to 18,492, being 3,554 less than the number recorded in the preceding quarter, and 8,117 less than the number in the first quarter of the year. Of this number 6,452 were registered in July, 6,289 in August, and 5,751 in September. Phthisis pulmonalis caused 458 deaths; enteric fever, 615; diphtheria, 3; measles, 88; small-pox, 5; and whooping-cough, 14.

EGYPT—Alexandria.—Period from July 4 to July 10, 1890. Population, 231,396. Total deaths, 160, including phthisis pulmonalis, 9; typhus fever, 1; enteric fever, 9; and small-pox, 1.

Cairo.—Period from July 4 to July 10, 1890. Population, 374,838. Total deaths, 305, including phthisis pulmonalis 18 and enteric fever 12.

WEST INDIES—Island of Antigua—St. John's.—Population, 15,847. During the period from April 26 to August 2. 1890, the United States

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vice-consul reports 203 deaths. No deaths from contagious diseases were reported.

CUBA—Havana.—Month of July, 1890. Total deaths, 863, including yellow fever, 67; so-called pernicious fever, 22; enteric fever, 22; diphtheria and eroup, 7; and measles, 13.

#### Cholera in Turkey.

[Reported by Dr. Spiridion C. Zavitziano, Constantinople, July 25, 1890.]

Cholera exists again this year in Turkey. Three provinces have been attacked by the cholera epidemic since the month of June, viz, Mossoul and Diarbekir in the north of Mesopotamia, and Bitlis in Armenia. We can not tell where the epidemic first began, but, up to the middle of June, three cases of cholera had been noticed at Gesire and one death. Since that day we have, by telegraph, official reports which are far from being precise and exact. Thus, we read in one of them that from the 22d of June to the 11th of July there is not a single case, but there are fifty-three deaths from cholera.

When I can obtain all the official reports I will give the exact number of all cases, as well as the death rate. At this moment I can give, approximately, the total number of cases and deaths in the provinces of Diarbekir and Mossoul.

It is officially reported from Mossoul that from the 22d of June to the 17th of July 191 persons have been attacked by cholera and that 120 persons have died.

In the province of Diarbekir, from June 17 to July 17, there were 143 cases and 114 deaths.

In the province of Bitlis there have been some cases in the Sanziak, or district of Siguird, on the road between Bitlis and Diarbekir, but since the 15th of July I have no reports of further sickness.

From Camaran, in the Red Sea, the chief inspector of the lazaretto where the Mohammedan pilgrims are quarantined writes that among the pilgrims landed by the steamer *Dencan*, coming from Bombay, there were several who had been attacked by cholera, and from the 10th of July to the 14th of the same month 10 men died from the epidemic.

In the capital of the empire the sanitary condition is rather good, with the exception of a small epidemic of diarrhœa in children, accompanied by several fatal cases.

## On the bacillus of tetanus.

[Translated for this Bureau from La Rivista Internazionale d'Igiene, Naples, Italy, June, 1890.]

Weyl has succeeded in isolating from the pure culture of the bacillus of tetanus, tetannia, and several other ptomaines isolated for the first time by Brieger. He has obtained large quantities of phenic acid as an accidental product of the culture of the bacillus of tetanus, which recalls the discovery made by Baumann of this acid as one among the products of decomposition of albuminous substances.

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The toxic principle of tetannia is weak; it increases in beef broth culture; inoculation in small doses produces in the inoculated animals the phenomena of acute tetanus. A mouse inoculated with ½ c. c. of pure culture exhibited convulsions of the posterior extremities at the end of five minutes. In a short time the anterior extremities and tail of the animal stiffened. At the end of three hours the animal died. The development of the disease differed from that of tetanus obtained with ordinary inoculation. This difference is explained by the fact that in acute tetanus the effect is immediate, while in inoculated tetanus the micro-organisms transmitted must multiply before their deleterious effects exhibit themselves.

Weyl has attempted to sterilize the pure cultures developed in broth. Sterilization by the vapor of hot water was found to be impracticable, since tetannia, one of the most subtle of chemical substances, is destroyed in the process. By the use of the Chamberland filter, Weyl succeeded in almost totally depriving the culture of germs, and, repeating his experiment with the filtered material, he produced acute tetanus.

Since the toxic effect of these cultures far exceeded that of tetannia, Weyl asserts that the cultures must contain, beside tetannia, another toxic principle.

### Mortality in Havana, Cuba, for the year 1889.

[Translated for this Bureau from La Rivista Internazionale d'Igiene, Naples, June, 1890.]

At the Medical Congress of Cuba, held at Havana, January 15 and 20, 1890, Dr. Della Guardia presented a report on mortality in Havana for the year 1889, showing the number of deaths to have been 5,923 in 201,448 inhabitants. There were 343 deaths from yellow fever; 149 from pernicious fever; 20 from glanders; 2 from rabies; 178 from typhoid fever; 1,183 from pulmonary tuberculosis; 40 from tetanus. Mortality was greatest during the months of June, July, and August. Comparison of statistics for 1890 with those for 1887 and 1888 shows yellow fever to have decreased, relatively, by more than 100 per cent.

Doctor Lyada read a report on yellow fever, which disease he affirms not to have existed in Cuba before the African immigration. It may be considered as having been imported from Africa in slave ships.

Doctor Gutierrez-Lée read a report on Borras fever, a disease which many physicans are inclined to consider an attenuated form of yellow fever. He considers it contagious, typhic in character, distinct from yellow fever and from malarial fever. It attacks, by preference, children from three to fourteen years of age.

## MORTALITY TABLE, FOREIGN CITIES.

	Week ended.		ula	from		Deaths from-								
Cities.			Estimated population.	Total deaths fall causes.	Cholera.	Yellow fever.	Small-pox.	Typhus fever.	Enteric fever.	Scarlet fever.	Diphtheria.	Measles.	Whooning-	
ondon	July 26	3	5, 758, 500	1746	·				2	17	26	112	١	
iverpool	July 26	j	613, 463						2	15	2			
Hasgow	July 26	3	545, 678		•				2	2	1		١.,	
Hasgow		2	545, 678							2	2			
russels	July 26		477, 398	154		• • • • • • • • • • • • • • • • • • • •								
lamburg		5	455,000	235		••••					5		••	
lamburg	July 12	Ś	455,000	235 261		·····•				1	3 5		!••	
lamburgyons	July 19	3	455, 000 401, 930	153			•••••		1 2		5	•••••		
msterdam	July 26 July 26		406, 402	118			1				3	ļ		
Iilan	Aug. 2	2	400, 000	110									1	
openhagen	July 26	j	312, 387	117							7			
lunich	July 19		298,000	171							3		١.,	
ologne	July 19		284, 574								2	ļ. <b>.</b>		
ologne	July 26	3	284, 574	142						3	2	2	ļ	
dinburgh	July 26	5	271, 135	109					1		, 1			
resden	July 26	j	269,000	96		·	•••••						10	
ristolelfast	July 28	5	269, 000 232, 248 232, 222	74 94						1	1			
otterdam	July 26 Aug. 2	2	203, 472	73	•••••				4		1	•••••		
avana	Aug. 9	j	200,000	178		17			2				1.	
enoa	Aug. 2	2	180, 379				4	1			1		1.	
rieste	July 19	j	158, 054					l			3		١.	
rieste,	July 26		158, 054									İ	١.,	
enice	July 19	€	157,572	87			6						١.,	
hristiania	July 30		143,500	59						1	2		٠.	
unchal	July 26	5	133, 250	29			5							
uremburg	July 19	9	129, 400	55						1	I			
uremburgtuttgart	July 26 July 19	3	129, 400 125, 510	52 60					3	2	3 5			
tuttgart	July 26	3	125, 510	58						1	3			
tuttgart	Aug. 2	2	125, 510	59							4			
remen	July 19	)	124,000								1		١	
remen	Aug. 4	1	124,000	45							1	ļ	١.,	
ernambuco	July 15	5	120,000	217										
ardiff	Aug. 2	2	117,012	22										
armen	July 26		113,000 112,074 109,246	30							••••			
lavre	July 26 July 27	2	112,074	75			•••••		1		4		1	
ix-La-Chapelleix-La-Chapelle	Aug. 3		109, 246	60								••••	į.,	
othenburg	July 26		102, 782	24									1	
heims	July 19	j	97, 903	60			1				1	1	ľ.	
heims	July 27	7	97, 903								1		١.,	
urich	July 19	9	91, 323	13				4			5	<b> </b>		
urich	July 26	5	91,323	14				6			3		I	
eith	July 26	5	78,538	16					ļ					
layence	July 19	<b>!</b>	65, 802				•••••						ŀ	
layence	July 26 July 26	9	65, 802 61, 708				;			ļ <b></b> .	·····	•••••	١	
erez de la Fronteraadiz	July 19	3	57, 157				1				1		•	
adiz	July 26		57, 157				1				i			
ienfuegos		3	40,655	18										
ondon, Ont		<b></b> .	32,000	27								ļ. <b></b>	١.,	
mherstburg	Aug. 12	2	30,000	4			l	ļ						
ew Castle, N. B	Aug. 2	2	28,000	5			ļ							
ardenas		3	25,000	12				2					ļ.,	
era Cruz	July 31		23, 800	19									١	
ingston, Can		3	12, 284 18, 000	13			ļ	ļ	•••••				1	
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JOHN B. HAMILTON,
Supervising Surgeon-General, Marine-Hospital Service.